

Rat BTC ELISA Kit | BTC elisa kit

Rat BTC PicoKine ELISA Kit

CATALOG #
AAA45813

REACTIVITY
Rat

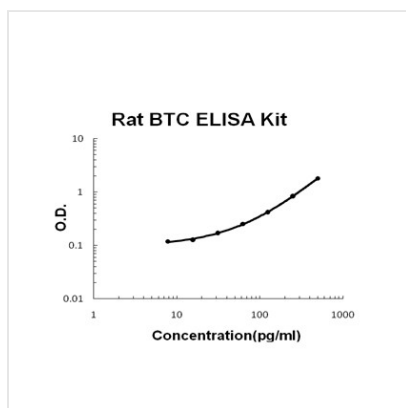
PRODUCT SYNONYMS

BTC; Rat BTC PicoKine ELISA Kit; Probetacellulin; betacellulin; Betacellulin precursor; BTC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat BTC
Sequence Length	177
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	7.8pg/ml-500pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Rat BTC PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for BTC elisa kit	Principle of the assay: rat BTC ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for BTC has been precoated onto 96-well plates. Standards(E.coli, D32-Y111) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for BTC is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat BTC amount of sample captured in plate. Background: Betacellulin, also known as BTC is a protein that in humans is encoded by the BTC gene. This gene is mapped to 4q13.3. The protein encoded by this gene is a member of the EGF family of growth factors. It is synthesized primarily as a transmembrane precursor, which is then processed to mature molecule by proteolytic events. This protein is a ligand for the EGF receptor. It is the growth factor that binds to EGFR, ERBB4 and other EGF receptor family members. This protein is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	81917512
NCBI GeneID	64022
UniProt Accession #	Q9JJM4; F1LPG4
Molecular Weight	19,579 Da
NCBI Official Full Name	Betacellulin
NCBI Official Synonym Full Names	betacellulin
NCBI Official Symbol	Btc
NCBI Protein Information	probetacellulin
UniProt Protein Name	Betacellulin
UniProt Gene Name	Btc
UniProt Entry Name	Q9JJM4_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.